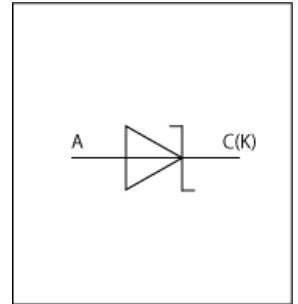


PSpice Model

Zener Diode

SanKen

SJPZ-N18



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_SJPZ-N18_PS
Pin Assign 1:C 2:A
File List Model Library MDC_SJPZ-N18_PS02.lib
 Model Report MDC_SJPZ-N18_PS.pdf (this file)

Verified Simulator Version PSpice version 17.2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version Rev.1.5 2021.03.09
- Product name SJPZ-N18
- Company name SanKen Electric Co., Ltd.
- Characteristics IfVf[Temp],IrVr[Temp],VrIr[Temp],BvTemp

Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	20	V
Temperature	-55	to	150	deg C

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

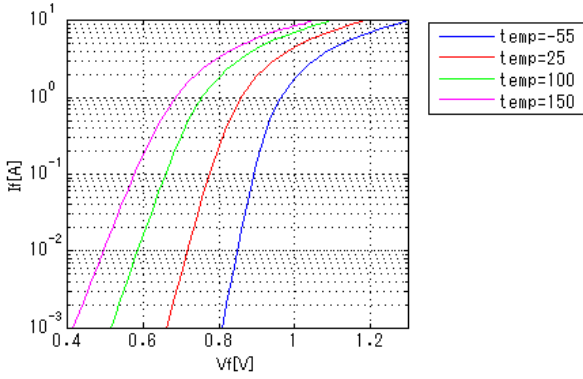
Model Functions Table

RANK=1

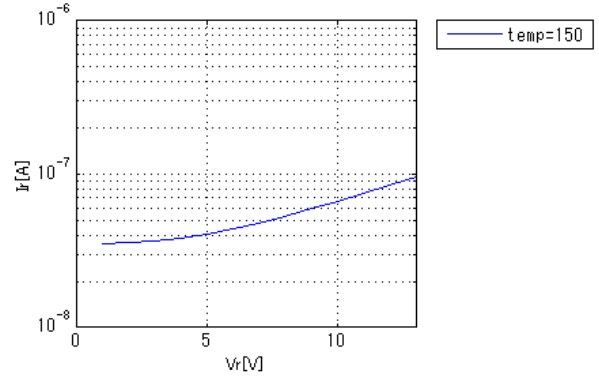
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	—
Reverse recovery characteristics	1	—
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	2	—

Simulation results are following.
 Explanatory notes — : simulated

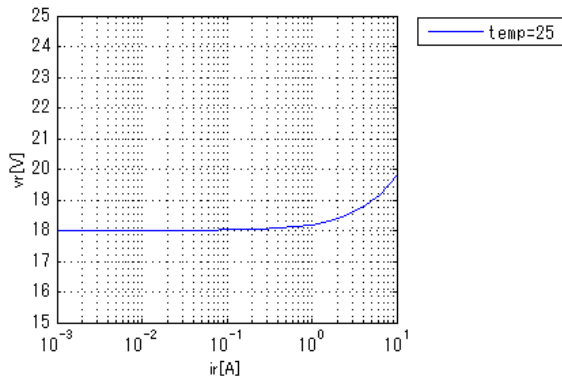
IfVf[Temp]



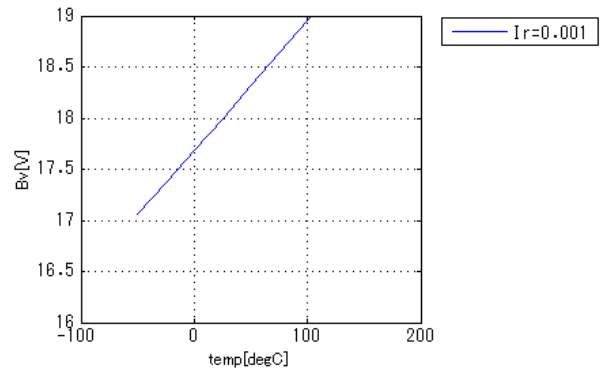
IrVr[Temp]



VrIr[Temp]



BvTemp



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